

Q 1 Shape of the maturing phase of tge golgi apparatus is?

A biconcave

B convex

C spherical

D concave

< Previous Question

Next Question >

Q 2

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

1

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 3

Which of the light is mainly absorbed by the plants?

A

Orange

B

Red

C

Green

D

Both A and B

2

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 4

The inflammation of bronchi or bronchioles is known as

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

3

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 5

Which one of the following surrounds the testicles?

A

Penis

B

Urethra

C

sperm duct

D

scrotum

4

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 6

Allosteric enzymes consist of multiple?

A

inhibitors

B

polypeptide chains

C

active sites

D

temperature ranges

5

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 7

Which of the following is not respiration?

A

Breakdown of glucose

B

Formation of glucose

C

Release of energy

D

Exchange of gases

6

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 8

According to Ivanovski what are soluble living germs

A

Bacteria

B

Viruses

C

Fungi

D

Both A and B

7

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 9

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

8

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 10

Phenotypic variation is a fundamental prerequisite for evolution by ?

A

artificial selection

B

natural selection

C

both a and b

D

none of these

9

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 11

A peptide bond is represented by?

A

C-N link

B

C- O link

C

N-H link

D

C-H link

10

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 12

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

11

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 13

Sperms of liverworts, mosses, ferns move towards archegonia, in response to nucleic acid released by the ovum. This is an example of?

A Chemotropic movement

B Chemonastic movement

C Haptonastic movement

D Chemotactic movement

12

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 14

Herpes simplex is caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

herpes virus

13

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 15

The random change in allele frequencies is known as?

A

genetic drift

B

diversity

C

linkage

D

all of these

14

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 16

A reflex action involving two or more interneurons between sensory and motor motor neuron is called:

A

Monosynaptic reflex

B

Polysynaptic reflex

C

Hemi Synaptic reflex

D

None of these

15

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 17

The controlling function of hypothalamus is:

A

swallowing

B

vision

C

Memory

D

water balance

16

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 18

Carbon can form bonds with which of the following to perform various functions in living organisms?

A

H

B

N and O

C

S

D

all of the above

17

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 19

A population of birds encounters a dramatic event that results in a severe decrease in population size. As a result of the newly-decreased population, what type of genetic drift does this population now exhibit?

A Artificial selection

B Founder affect

C Bottleneck affect

D both a and b

18

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 20

The ATP synthesis in plants during the ETC is called?

A photophosphorylation

B photolysis

C chemiosmosis

D all of these

19

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 21

On which of the following component of chloroplast chlorophyll is arranged?

A

cell membrane

B

matrix

C

thylakoid

D

stroma

20

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 22

A metal cofactor which is used in synthesis of glycolysis is?

A

Fe⁺³

B

Mn⁺²

C

Co⁺²

D

Mg⁺²

21

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 23

Prokaryotes that can utilize oxygen if available, but do not require it, are called?

A

Constitutive anaerobe

B

Facultative anaerobe

C

Constitutive aerobe

D

Obligate anaerobe

22

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 24

Which among the following defines GPI anchored proteins?

A

Integral proteins of the plasma membrane

B

Proteins that bind to ion-gated channels in the plasma membrane

C

Proteins which randomly bind to lipids of the plasma membrane

D

Peripheral proteins of the plasma membrane

23

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 25

The proteins at the junction between sarcomeres form the:

A

H zone

B

M line

C

Z line

D

A band

24

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 26

Which lytic enzyme released by the sperm?

A

trypsin

B

helicase

C

testosterone

D

Hyaluronidase

25

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 27

What affect do enzymes have on the activation energy of a reaction?

A

increases

B

decreases

C

no affect

D

Increases or decreases depending upon individual enzyme

26

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 28

What is generated during noncyclic flow of photosynthesis?

A

ATP

B

NADPH

C

Oxygen

D

all of these

27

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 29

Which of the following step occurs immediately after binding of Ca^{2+} with troponin molecule during muscle contraction?

- A Binding sites of actin get attached to the myosin head
- B Troponin uncovers the actin binding sites.
- C Ca^{2+} goes back inside sarcoplasmic reticulum.
- D Tropomyosin gets removed from the binding sites of actin filaments.

28

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 30

Which of the following statements are true about the viruses?

A Free living

B Obligate parasites

C both a and b

D none of the above

29

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 31

From beginning of the 3rd month of pregnancy the human embryo is referred to as the?

A zygote

B foetus

C embryo

D all of these

30

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 32

Cytochrome C is an example of ____

A

peripheral protein

B

transmembrane proteins

C

intrinsic proteins

D

intracellular proteins

31

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 33

To overcome infertility, which technique is used:

A

In vitro fertilization

B

In vivo fertilization

C

Both A and B

D

None of these

32

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 34

Which of the following is male determining gene in humans?

A tfm

B SRY

C both a and b

D none of these

33

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 35

Which class has the largest number of animals?

A

fishes

B

reptiles

C

insects

D

mammals

34

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 36

Which of the following blood group is always heterozygous?

A

A

B

B

C

AB

D

O

35

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 37

Such inheritance in which traits vary quantitatively is?

A

Continuously varying trait

B

Incomplete dominance

C

Test cross

D

Polygenic inheritance

36

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 38

PS I has chlorophyll a molecule which absorbs maximum light of _____ nm?

A

600

B

650

C

680

D

700

37

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 39

Glottis is lined with:

A

plasma membrane

B

Mucous membrane

C

meninges

D

epithelial membrane

38

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 40

Which statement about the nucleolus is not true?

A no membranous boundary

B hereditary center

C site of synthesis for rRNA

D composed of two regions

39

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 41

Aquatic arthropods respire through which of the following?

A

gills

B

book lungs

C

spiracles

D

both a and b

40

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 42

Out of 31 pairs of spinal nerves, how many pairs of lumbar nerves are there?

A

5

B

10

C

12

D

15

41

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 43

Photosystem 1 absorbs maximum wavelength of light?

A

750

B

600

C

700

D

770

42

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 44

A surfactant plays its role by:

A decreasing surface tension

B increasing surface tension

C no effect on surface tension

D none of these

43

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 45

Which statement is incorrect?

A

Homologous organs are functionally different but structurally alike

B

Examples of homologous structures are arms of man, forelimb of cat, flipper of whale

C

Examples of analogous structures are wings of bats, birds and insects

D

Analogous organs are functionally different but structurally alike

44

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 46

The space between two Z lines constitutes the:

A

sarcolemma

B

sarcoplasm

C

sarcophagus

D

sarcomere

45

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 47

A Dutch scientist firstly observed very small creatures in

A

Vinegar

B

Saliva

C

Rain water

D

All of Above

46

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 48

The numbers of capsomeres found in adenovirus capsid is?

A

162

B

200

C

252

D

155

47

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 49

Which of the following is evidence of a common ancestor?

A Morphological similarities

B Fossil record

C Vestigial characteristics

D all of these

48

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 50

An enzyme is said to be denatured in the presence of?

A

no cofactor

B

low temperature

C

extremely high temperature

D

none of these

49

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 51

In DNA molecules, Adenine pairs with which of the following nucleic acid bases?

A

Guanine

B

Uracil

C

Cytosine

D

Thymine

50

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 52

To form a female zygote, the sperm cell must contribute which chromosome?

A

X

B

2X

C

Y

D

XY

51

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 53

Which the following is not the unique features of synovial joint?

A

Articular capsule

B

articular cartilage

C

synovial fluid

D

fibrocartilage

52

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 53

Which the following is not the unique features of synovial joint?

A

Articular capsule

B

articular cartilage

C

synovial fluid

D

fibrocartilage

52

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 55

Where does germ cells are produced?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

54

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 56

Which of the following statement about the head of a chlorophyll molecule is incorrect?

- A It is a porphyrin ring or tetrapyrrole ring structure
- B It is flat, square and light absorbing
- C Composed of carbon and nitrogen atoms with Magnesium as central metal ion, which is coordinated with nitrogen.
- D It is hydrophobic

55

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 57

What types of viruses contain the enzyme lysozyme to aid in their infection?

A bacteriophage

B animal viruses

C plant viruses

D fungal viruses

56

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 58

All of the following statements are true regarding the attachment or adsorption of the virion to the host cell EXCEPT that:

- A for naked virions, the surface capsid proteins are responsible for binding to a specific cell receptor.
- B for enveloped viruses, the spikes are responsible for binding to a specific cell receptor.
- C cell lacking a receptor for a specific virus is not infected by that virus.
- D All of the above

57

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 59

Which term is used to refer to an inactive enzyme precursor?

A

apoenzyme

B

null enzyme

C

zymogen

D

inhibitor

58

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 60

The left side of the body is controlled by:

A left cerebral hemisphere

B right cerebral hemisphere

C Hippocampus

D Corpus callosum

59

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 61

The optimum pH for enzyme arginase is?

A

9

B

9.3

C

9.7

D

10

60

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 62

The lipoproteins are rich in cholesterol _____

A

Chylomicrons

B

VLDL

C

LDL

D

HDL

61

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 63

The flap like structure found in larynx is called:

A

glottis

B

epiglottis

C

larynx

D

vocal cords

62

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 64

The synthesis of ATP in the presence of oxygen is called?

A respiration

B calvin cycle

C oxidative phosphorylation

D chemiosmosis

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65

How is the body plan of a lobster similar to that of a whale?

A

Closed circulatory system.

B

Mouth develops from the blastopore.

C

A tubular digestive system with a mouth and an anus.

D

The gut is not lined by coelomic epithelium.

64

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 66

The long unbranched, slender tubulin protein is called?

A

microtubules

B

intermediate filament

C

actin

D

all of these

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

Which of the following is paired correctly?

A Pisces- jellyfish

B Echinodermata- cuttlefish

C Mollusca- starfish

D Arthropoda- silver fish

66

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 68

The movement of minerals or water via plasmodesmata is known as:

A apoplast

B symplast

C vascular

D All of these

67

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 69

Kinetic energy of the molecule may be all of the following except?

A

Vibrational

B

Translational

C

Rotational

D

Static

68

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 70

Aldehydes can be oxidized by_____?

A

$\text{K}_2\text{Cr}_2\text{O}_7$

B

HNO_3

C

Tollen's reagent

D

All of these

69

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 71

Allotropes are of same

A

Compounds

B

Molecules

C

Ions

D

Element

70

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 72

The vapor pressure of water at 8°C is

A

4.579 torr

B

23 torr

C

8.1 torr

D

17.54 torr

71

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 73

The second ionization potential of alkali metals are very high due to

A

Being s-block elements

B

Inert gas configurations

C

ns¹ electronic configuration

D

Being metals

72

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 74

Activated complex is formed due to

A

Pressure

B

Temperature

C

Effective collision

D

Ineffective collision

73

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 75

The break down of molecular ions from natural products give important information about

A

size

B

position

C

shape

D

structure

74

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 76

The group which leaves from the substrate in a nucleophilic substitution reaction is called as ___?

A Leaving group

B Electrophile

C Substrate

D Weak nucleophile

75

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 77

How many pi bonds are present in ethene?

A

3

B

2

C

1

D

0

76

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 78

Following is termed as hydroxyl derivative of benzene

A Benzyl chloride

B Benzyl alcohol

C Phenols

D Carboxylic acids

77

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 79

Which of the following element can form interstitial alloy with transition elements?

A Zn

B Mg

C H

D All of these

78

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 80

Salt Bridge is used for the purpose of

A

Producing Electrons

B

Circuit Completion

C

Increasing speed of electrons

D

All of these

79

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 81

The temperature at which enzyme activity is maximum is called as_____?

A Maximum temperature

B Absolute temperature

C Critical temperature

D Optimum temperature

80

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 82

H-bonding is stronger than_____?

A

Dipole dipole forces

B

Debye forces

C

London forces

D

All of these

81

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 83

The rate of $\text{S}_{\text{N}}1$ reaction become doubled if _____?

A

Concentration of Nucleophile doubled

B

Concentration of Substrate doubled

C

Concentration of Substrate Tripled

D

Concentration of substrate remain same

82

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 85

On which factors the vapour pressure of a substance does not depend?

A Physical state of matter

B Intermolecular forces

C Surface area

D Temperature

84

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 86

Pressure cooker works on which principle?

A Decrease in external pressure increase the boiling point

B Increase in external pressure decrease the boiling point

C Increase in external pressure increase the boiling point

D None of these

85

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 87

State function is the _____ property of system.

A

Microscopic

B

Dependent

C

Macroscopic

D

Constant

86

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 88

The reactant which consumes completely in a reaction is known as ____reactant

A fractional

B initial

C limiting

D minor

87

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 89

Which is not a heterocyclic compound?

A

Furan

B

Pyrrole

C

Pyridine

D

Ethane

88

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 90

Production of Ammonia by Haber process is a

A

Endothermic Reaction

B

Exothermic Reaction

C

Irreversible Reaction

D

Redox Reaction

89

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 91

Human body contains _____ kind of proteins ?

A

60000

B

Almost 10000

C

5000

D

200

90

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 92

Kekule's formula shows benzene _____?

A

Highly saturated

B

Highly unsaturated

C

Give Substitution reaction

D

Give elimination reaction

91

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 93

What is the common name of 2-methyl-2-chloropropane ?

A secondary propyl chloride

B Tertiary butyl chloride

C Secondary butyl chloride

D Isobutyl Chloride

92

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 94

In the addition of sodium bisulfite to carbonyl system, which of the following is nucleophile?

A Sulphide ion

B Sulfite ion

C Hydride ion

D Sodium ion

93

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 95

Linde's Method is based on

A joule-Thomson effect

B Hess effect

C graham's effect

D none of these

94

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 96

Which of the following Shows tautomerism?

A Amino acids

B Ketones

C Carboxylic acids

D All of these

95

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 97

How many hydrogen atoms are attached to tertiary carbon in tertiary butyl alcohol?

A 3

B 2

C 1

D 0

96

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 98

Formamint is made up of _____?

A

Formaldehyde + maltose

B

Formaldehyde + lactose

C

Formaldehyde + Galactose

D

Formaldehyde + fructose

97

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 99

Instantaneous dipole-Induced dipole forces are also named as?

A

Debye forces

B

Dipole-dipole forces

C

London Dispersion forces

D

H-bonding

98

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 100

$\text{S}_{\text{N}}1$ reactions have which of the following species formed and consumed in the reaction?

A Transition state

B Intermediate

C Carbanion

D Carbene

99

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 101

The minimum amount of energy required to remove an electron from its gaseous atom to form an ion is known as

A electron affinity

B ionization energy

C electronegativity

D potential energy

100

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 102

Number of Valence Electrons in Cl^- Ion are

A

18

B

10

C

17

D

8

101

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 103

Atomicity is determined by number of _____ present in a molecule

A

dots

B

atoms

C

sub particles

D

electrons

102

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 103

Atomicity is determined by number of _____ present in a molecule

A

dots

B

atoms

C

sub particles

D

electrons

102

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 105

The ionization energy of group __shows abnormal trend

A

3A & 4A

B

5A & 6A

C

6A & 4A

D

3A & 6A

104

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 105

The ionization energy of group __shows abnormal trend

A

3A & 4A

B

5A & 6A

C

6A & 4A

D

3A & 6A

104

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 105

The ionization energy of group __shows abnormal trend

A

3A & 4A

B

5A & 6A

C

6A & 4A

D

3A & 6A

104

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 107

When the central atom of coordination compound is sp^3d^2 hybridization the expected geometry will be

A Tetrahedral

B Square planar

C Trigonal bipyramidal

D Octahedral

106

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 108

which of the following solids is isotropic

A

ionic solids

B

molecular solids

C

amorphous solids

D

metallic solids

107

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 109

Which of the following is formed when phenol reacts with acetyl chloride?

A

Alcohol

B

Carboxylic acids

C

Ester

D

Amines

108

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 110

Which of the following does not react with bases?

A

Carboxylic acids

B

Phenol

C

Ethanol

D

HCl

109

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 111

The rate of reaction

A

Increases as the reaction proceeds

B

Decreases as the reaction proceeds

C

Remains unchanged

D

None of these

110

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 111

The rate of reaction

A

Increases as the reaction proceeds

B

Decreases as the reaction proceeds

C

Remains unchanged

D

None of these

110

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 111

The rate of reaction

A

Increases as the reaction proceeds

B

Decreases as the reaction proceeds

C

Remains unchanged

D

None of these

110

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 112

If a graph is plotted between pressure on x- axis and volume on y- axis for Boyle's law verification, the curve obtained is called

A pseudotherm

B isotherm

C biotherm

D all of these

111

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 113

Which of following shows maximum boiling point

A

primary alcohol

B

secondary alcohol

C

tertiary alcohol

D

all of above

112

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 114

In Electrochemical Cell Positive Ions are migrated towards

A

Anode

B

Cathode

C

Toward the bottom of the cell

D

Towards the walls of the cell

113

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 115

H_3O^+ ions act as

A

Base

B

Catalyst

C

Buffer

D

Acid

114

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 116

The Addition of Hydrogen cyanide in Formaldehydes give which product?

A

2- Hydroxypropanoic acid

B

2- methylpropanenitrile

C

Hydroxyacetoneitrile

D

2- Hydroxypropanenitrile

115

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 117

What is the correct equation to find Heat of neutralization using glass calorimeter ?

A $q = m s \Delta T$

B $E = q m \Delta T$

C $E = m s \Delta T$

D $q = m c \Delta T$

116

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 118

f-block elements are called ?

A

inner transition

B

outer transition

C

both

D

none

117

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 119

Which of the following reactions have first step similar with each other?

A

E_1, S_2

B

E_2, S_1

C

E_2, S_2

D

E_1, S_1

118

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 120

The nature of amorphous solid is

A isotropic

B anisotropic

C mesotrophic

D neotropic

119

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 121

Pentene has how many isomers?

A

2

B

1

C

5

D

3

120

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 122

Which one of the following H-bond is strong?

A O-H

B N-H

C F-H

D Cl-H

121

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 123

Spectrum is the visual display or _____ of component of white light when it is passed through prism

A

rarefaction

B

radiation

C

collection

D

dispersion

122

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 124

Proteases enzyme are example of:

A Lyases

B Hydrolases

C Ligases

D Transferases

123

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 125

SI Unit of voltage is?

A

Coulomb

B

Volts

C

Ampere

D

newton's Meter

124

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 126

Current carrying loop behaves like a

A monopole

B dipole

C quadrupole

D octopole

125

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 127

Which of the following is the same for isotopes?

A neutrons

B protons

C electrons

D all of them

126

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 128

The particle that possesses half integral spin has

A

pion

B

proton

C

k-meson

D

photon

127

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 129

In stretched string the frequency of vibration is given by $f = \frac{1}{2L} \sqrt{F/m}$. In this equation m has dimension

A ML^{-2}

B ML^{-1}

C M

D ML

128

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 130

When temperature of the system does not change, it is called:...

A isothermal

B adiabatic

C isovolumetric

D isobaric

129

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 131

If peak Voltage across a full wave rectifier is 20V then V_{rms} is

A 7.07

B 14.14 v

C 16.8V

D 12V

130

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 132

The value of acceleration due to gravity on moon is_____ of earth

A

1/4 th

B

1/10th

C

2/3rd

D

1/6th

131

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 133

Laser light is

A

multi directional

B

bi-directional

C

uni-directional

D

none of these

132

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 134

Which of the following is not a conservative force

A

friction

B

electric

C

magnetic

D

gravitational

133

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 135

Force acting on a negative charge is always:....

- A in the direction opposite to electric field
- B in the direction of electric field
- C in the direction perpendicular to electric field
- D in the direction perpendicular to the velocity of charge

134

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 136

A body performing circular motion with a constant speed has a constant :

A momentum

B angular velocity

C acceleration

D radius vector

135

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 137

In Boyle's law, which quantity is constant

A

P

B

T

C

V

D

R

136

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 138

Bright Lines in pattern shows

A absorption

B emission

C release

D free particle

137

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 139

Electric field lines provide information about

A

Field strength

B

direction

C

Nature of charge

D

All of these

138

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 140

The concept of work function was given by

A

Bohr

B

Einstein

C

Rutherford

D

none of these

139

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 141

What will be the decay constant of 1 Curie sample of radioactive substance of mass 214, its half life is 26.8 min?

A 4.31×10^{-4}

B 4.31×10^{-5}

C 4.31×10^5

D 0.431

140

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 142

For currents changing with time will produce___ field

A electrostatic

B magnetostatic

C electromagnetic

D none of these

141

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 143

In full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of frequency

A 25 Hz

B 50Hz

C 100Hz

D zero

142

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 144

Instantaneous velocity is defined at

A particular displacement

B instant acceleration

C instant time

D average time

143

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 145

A capacitor stores charge Q at a potential difference ΔV . What happens if the voltage applied to the capacitor by a battery is doubled to $2 \Delta V$?

- A the capacitance falls to half its initial value, and the charge remains the same
- B the capacitance and the charge both fall to half their initial values
- C the capacitance and the charge both double
- D . the capacitance remains the same, and the charge Doubles

144

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 146

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $20/\sqrt{2}$

C $20/\pi$

D 20π

145

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 147

The attraction capacity of electromagnet will increase if the

A Core length increases

B Core area increases

C Flux density decreases

D Flux density increases

146

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 148

Two spherical nuclei have mass number 216 and 64 with radius R_1 and R_2 respectively. The ratio of R_2/R_1 is

A 1.5

B 2

C 2.5

D 3

147

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 149

What is the magnitude of the magnetic field $B = (0.3\mathbf{i} + 0.4\mathbf{j})$ T?

A 5 T

B 2.5 T

C 0.5 T

D 2 T

148

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 150

If crops are grown under greenhouse radiation the crops will

A

grow faster

B

grow slowly

C

burn immediately

D

none of these will happen

149

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 151

Half wave rectifier passes only

A lower half cycle

B upper half cycle

C both cycles

D none of them

150

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 152

Which of the following statements is correct? The electric field at a point is

- A continuous if there is a charge at that point
- B Always continuous
- C discontinuous only if there is a negative charge at that point
- D discontinuous if there is a charge at that point

151

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 153

A metal rod of length 4 m , velocity 5m/s and magnetic field 0.5 T induced emf is

A 10 V

B 20V

C 30V

D 4V

152

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 154

A light bulb draws 300 mA when the voltage across it is 240 V. The resistance of the light bulb is

A 400 ohm

B 600 ohm

C 800 ohm

D 1000 ohm

153

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 155

When electron series terminates on 4th orbit ____ series is obtained

A

Balmer

B

Pfund

C

Paschen

D

none of these

154

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 156

A body moving along the circumference of a circle completes two revolutions. If the radius of the circular path is R , the total angular displacement covered is?

A πr

B $2\pi r$

C zero

D 4π

155

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 157

If the supply frequency of a transformer increases, the secondary output voltage of the transformer

A increases

B decreases

C remains unchanged

D any of above

156

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 158

As a result of interference, energy

A

is transmitted and reflected

B

is lost

C

remains unchanged as a whole but is redistributed

D

is gained

157

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 159

Acceleration of rolling object is zero at _____ point of hill

A

highest

B

lowest

C

middle

D

none of these

158

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 159

Acceleration of rolling object is zero at _____ point of hill

A

highest

B

lowest

C

middle

D

none of these

158

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 160

Consider a drop of water of mass 1 gm falling from a height of 1 km. It hits the ground with a speed of 50 m/s, take $g = 10 \text{ m/s}^2$. the work done by resistive force of air is

A -8.25 J

B -8.75 J

C 8.75 J

D 8.5 J

159

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 161

The convection process transfer heat faster than radiation

A it depends on condition

B not always

C TRUE

D FALSE

160

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 162

the value of quantity G in the law of gravitation

A

depend on mass of Earth only

B

depends on radius of Earth only

C

depends on both

D

it independent of mass and radius of Earth

161

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 163

The source of gamma radiation is

A outside nucleus

B inside nucleus

C electron transition

D none of these

162

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 164

Copper wire is used as connecting wire because :

A copper has high electrical resistivity

B copper has low electrical resistivity

C copper has low electrical conductivity

D copper has high value of elasticity

163

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 165

Numbers of electrons emitted in photoelectric effect depends upon

A

wavelength of incident light

B

frequency of incident light

C

energy of incident light

D

intensity of incident light

164

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 166

The frequency of a wave is 60 Hz. How long does it take to pass 20 complete waves from a point?

A 1200 sec

B 12 sec

C 3 sec

D $\frac{1}{3}$ sec

165

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 167

Which one is the correct statement about selenium?

A selenium is a good conductor

B selenium is a good insulator

C selenium is an insulator in the dark and becomes conductor when exposed to light

D selenium is an conductor in the dark and becomes insulator when exposed to light

166

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 168

Value of current in a short circuit is _____

A

Infinite

B

zero

C

minimum

D

maximum

167

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 169

A variable force $F = 2x$ is applied what will be the work done in moving the particle from $X = 10$ to 0

A 100 J

B 50 J

C -50 J

D -100 J

168

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 170

For a half-wave rectifier having diode voltage V_D and supply input of V , the diode conducts for $\pi - 2\theta$, where θ is given by

A $\tan^{-1}(V_D/V)$

B $\sin^{-1}(V_D/V)$

C $\cos^{-1}(V_D/V)$

D $\cot^{-1}(V_D/V)$

169

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 171

If ^{238}U decay two gamma particles the new atomic number will be

A

^{238}U

B

^{234}U

C

^{237}U

D

none of these

170

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 172

A steel wire hangs vertically from a fixed point, supporting a weight of 80 N at its lower end. The diameter of the wire is 0.50 mm and its length from the fixed point to the weight is 1.5 m. If density of steel wire = $7.8 \times 10^3 \text{ kg/m}^3$, then what is the fundamental frequency emitted from the wire.

A 76 Hz

B 176 Hz

C 50 Hz

D 150 Hz

171

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 173

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is L , then what is the maximum possible wavelength of the wave.

A $2L$

B $\frac{1}{2}L$

C L

D $3L$

172

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 174

Consider a car is travelling for one hour. Which of the following cases has the greatest average velocity in east-direction?

A car travels 20 km due east

B car travels 60 km due east, then turns around and travels 40 km due west

C car travels 70 km due east

D car travels 30 km due west, then turns around and travels 30 km due east

173

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 175

A reversible carnot engine converts $\frac{1}{6}$ th of heat into input work. When the temperature of sink is reduced by 62°C then efficiency is doubled then temperature of source and sink is

A $80^\circ\text{C}, 37^\circ\text{C}$

B $99^\circ\text{C}, 30^\circ\text{C}$

C $99^\circ\text{C}, 25^\circ\text{C}$

D $99^\circ\text{C}, 37^\circ\text{C}$

174

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 176

Where does the energy lost by fast moving electron goes :

A

Appears as photon

B

Appears as electron - positron pair

C

Appears as its K.E.

D

It vanishes

175

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 177

The image received of absorbed x rays is

A inverted

B real

C any of a or b

D virtual

176

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 178

The centripetal force direction is positive when object rotates

A anti-clockwise

B clockwise

C upward

D none of these

177

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 179

The half-life of radium is about 1600 years. Of 100 g of radium existing now, 25 g will remain unchanged after

A 2400 years

B 3200 years

C 6400 years

D 4800 years

178

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 180

Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is

A min

B constant

C zero

D max

179

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 181

Spring is _____. It will be warmer soon.

A

on the way

B

to be coming

C

eventually

D

prepared now

180

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 182

I am _____ tea now.

A

taking

B

takes

C

took

D

take

181

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 183

Aslam and his friends were making too much noise. Their father got really _____ at them.

A afraid

B angry

C kind

D strong

182

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 184

Fetch ____ chair and sit down.

A

a

B

an

C

the

D

no article

183

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 185

They would not (A)/ have able to (B)/ plan the details of the trip (C)/ without your help. (D)

A

They would not

B

have able to

C

plan the details of the trip

D

without your help.

184

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 186

Choose the present indefinite tense form of the sentence. "He had been sleeping."

A He has been sleeping.

B He had slept.

C He has slept.

D He sleeps.

185

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 187

Choose the correct sentence.

A My friend Sally and i are reading "The Phantom Tollbooth"

B My friend sally and I are reading "The Phantom Tollbooth" .

C My friend Sally and I are reading "The Phantom Tollbooth".

D My friend Sally and I are reading the phantom tollbooth.

186

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 188

Our neighbors have _____ cat and _____ dog.

A

a... an

B

a...a

C

a...the

D

an...an

187

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 189

I have already got a _____ at a hotel in Murree. We shall have no problems.

A prescription

B property

C reserve

D reservation

188

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 190

I would love (A)/ to be able to swim (B)/ if I am not afraid (C)/ of water (D)

A I would love

B to be able to swim

C if I am not afraid

D of water.

189

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 191

The police _____ (leave) no stone unturned to trace the culprits.

A left

B leave

C leaves

D leaving

190

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 192

That night every one of the boat's crew _____ down with fever.

A is

B are

C was

D were

191

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 193

would not

A

would'nt

B

wouldn't

C

woul'dnt

D

wouldnt'

192

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 195

Find the error?

A

They talked through the entire movie.

B

The plants in this garden does not require much water.

C

She always brings turkey sandwiches for lunch.

D

No mistakes

194

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 196

Choose the correct spelling of the word

A possession

B possession

C posession

D posession

195

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 197

There is _____ institution for _____ blind in this city.

A

a... an

B

a... the

C

an.. a

D

an.. the

196

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 198

She _____ (work) in the factory for fifteen years by next year.

A will work

B will be working

C will have been working

D had worked

197

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 199

Over-speeding is a traffic offense which leads to _____ accidents.

A troublesome

B final

C great

D gruesome

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 200

Choose the correct sentence.

A Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B Mrs Sajjad who was sitting behind the desk gave me a big smile.

C Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D Mrs Sajjad, who was sitting behind the desk gave me a big smile?

199

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 201

Statement: Majority of the students in the college expressed their opinion against the college authority's decision to break away from the university and become autonomous. The university authorities have expressed their inability to provide grants to its constituent colleges.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

200

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 202

The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is

- A True
- B FALSE
- C maybe
- D unresolved

201

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 203

Look at this series 14, 28, 20, 40, 32, 64. What number should come next?

A

52

B

56

C

96

D

128

202

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 203

Look at this series 14, 28, 20, 40, 32, 64. What number should come next?

A

52

B

56

C

96

D

128

202

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 204

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

203

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 205

I. The department of finance has levied more taxes. II. The economic shortfall of the country has slashed.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

204

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 206

Which of the following is classified as a main rock?

A

Metamorphic

B

Sedimentary

C

Igneous

D

Both A and B

205

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 207

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

206

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 208

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

207

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 209

Statements (I) Many people prefer to shop at the big retail chains than the local grocery stores. (II) Retail chains offer a discount of more than 25% as compared to local grocery shops.

- A I is cause and II is effect
- B II is cause and I is effect
- C Both are independent causes
- D both are effects of independent causes

208

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 210

Complete the series A25, B625, C15625, _____?

A

D390625

B

D364748

C

D390524

D

D390525

209

SKIPPED QUESTIONS



< Previous Question

Submit

Q 210

Complete the series A25, B625, C15625, _____?

A

D390625

B

D364748

C

D390524

D

D390525

209

SKIPPED QUESTIONS



◀ Previous Question

Submit

Q1 The long unbranched, slender tubulin protein is called?

A microtubules

B intermediate filament

C actin

D all of these

< Previous Question

Next Question >

Q2 According to Ivanovski what are soluble living germs

A Bacteria

B Viruses

C Fungi

D Both A and B

< Previous Question

Next Question >

Q3 H-bonding is stronger than_____?

A Dipole dipole forces

B Debye forces

C London forces

D All of these

< Previous Question

Next Question >

Q4

Rate equation for the hydrolysis of Tertiary Butyl Bromide is independent of concentration of water as a reactant because

A

It's in excess

B

A solvent

C

Solute

D

Both A and B

[< Previous Question](#)[Next Question >](#)

Q5

A capacitor stores charge Q at a potential difference ΔV . What happens if the voltage applied to the capacitor by a battery is doubled to $2 \Delta V$?

A

the capacitance falls to half its initial value, and the charge remains the same

B

the capacitance and the charge both fall to half their initial values

C

the capacitance and the charge both double

D

. the capacitance remains the same, and the charge Doubles

< Previous Question

Next Question >

Q6

If a graph is plotted between pressure on x- axis and volume on y- axis for Boyle's law verification, the curve obtained is called

A pseudotherm

B isotherm

C biotherm

D all of these

[< Previous Question](#)[Next Question >](#)

Q7 Which among the following defines GPI anchored proteins?

- A Integral proteins of the plasma membrane
- B Proteins that bind to ion-gated channels in the plasma membrane
- C Proteins which randomly bind to lipids of the plasma membrane
- D Peripheral proteins of the plasma membrane

Q8 Cytochrome C is an example of ____

A peripheral protein

B transmembrane proteins

C intrinsic proteins

D intracellular proteins

< Previous Question

Next Question >

Q9

How many hydrogen atoms are attached to tertiary carbon in tertiary butyl alcohol?

A

3

B

2

C

1

D

0

< Previous Question

Next Question >

Q10

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

[< Previous Question](#)[Next Question >](#)

Q11 Which of the light is mainly absorbed by the plants?

A Orange

B Red

C Green

D Both A and B

< Previous Question

Next Question >

Q12

The inflammation of bronchi or bronchioles is known as

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

[< Previous Question](#)[Next Question >](#)

Q13 Which one of the following surrounds the testicles?

A Penis

B Urethra

C sperm duct

D scrotum

< Previous Question

Next Question >

Q14

Allosteric enzymes consist of multiple?

A

inhibitors

B

polypeptide chains

C

active sites

D

temperature ranges

< Previous Question

Next Question >

Q15

Which of the following is not respiration?

A

Breakdown of glucose

B

Formation of glucose

C

Release of energy

D

Exchange of gases

[< Previous Question](#)[Next Question >](#)

Q16

Shape of the maturing phase of tge golgi apparatus is?

A

biconcave

B

convex

C

spherical

D

concave

< Previous Question

Next Question >

Q17

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

[< Previous Question](#)[Next Question >](#)

Q18

Activated complex is formed due to

A

Pressure

B

Temperature

C

Effective collision

D

Ineffective collision

< Previous Question

Next Question >

Q19

The nature of amorphous solid is

A

isotropic

B

anisotropic

C

mesotrophic

D

neotropic

< Previous Question

Next Question >

Q20

In Boyle's law, which quantity is constant

A

P

B

T

C

V

D

R

< Previous Question

Next Question >

Q21

A light bulb draws 300 mA when the voltage across it is 240 V. The resistance of the light bulb is

A

400 ohm

B

600 ohm

C

800 ohm

D

1000 ohm

< Previous Question

Next Question >

Q22

Phenotypic variation is a fundamental prerequisite for evolution by ?

A

artificial selection

B

natural selection

C

both a and b

D

none of these

[< Previous Question](#)[Next Question >](#)

Q23

A peptide bond is represented by?

A

C-N link

B

C- O link

C

N-H link

D

C-H link

< Previous Question

Next Question >

Q24

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

[< Previous Question](#)[Next Question >](#)

Q25

Sperms of liverworts, mosses, ferns move towards archegonia, in response to nucleic acid released by the ovum. This is an example of?

A Chemotropic movement

B Chemonastic movement

C Haptonastic movement

D Chemotactic movement

[< Previous Question](#)[Next Question >](#)

Q26

Herpes simplex is caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

herpes virus

< Previous Question

Next Question >

Q27

The random change in allele frequencies is known as?

A

genetic drift

B

diversity

C

linkage

D

all of these

[< Previous Question](#)[Next Question >](#)

Q28

The controlling function of hypothalamus is:

A

swallowing

B

vision

C

Memory

D

water balance

< Previous Question

Next Question >

Q29

Carbon can form bonds with which of the following to perform various functions in living organisms?

A

H

B

N and O

C

S

D

all of the above

< Previous Question

Next Question >

Q30

A population of birds encounters a dramatic event that results in a severe decrease in population size. As a result of the newly-decreased population, what type of genetic drift does this population now exhibit?

A Artificial selection

B Founder affect

C Bottleneck affect

D both a and b

[< Previous Question](#)[Next Question >](#)

Q31 The ATP synthesis in plants during the ETC is called?

A photophosphorylation

B photolysis

C chemiosmosis

D all of these

< Previous Question

Next Question >

Q32

On which of the following component of chloroplast chlorophyll is arranged?

A

cell membrane

B

matrix

C

thylakoid

D

stroma

[< Previous Question](#)[Next Question >](#)

Q33

A metal cofactor which is used in synthesis of glycolysis is?

A

Fe^{+3}

B

Mn^{+2}

C

Co^{+2}

D

Mg^{+2}

[< Previous Question](#)[Next Question >](#)

Q34

Prokaryotes that can utilize oxygen if available, but do not require it, are called?

A

Constitutive anaerobe

B

Facultative anaerobe

C

Constitutive aerobe

D

Obligate anaerobe

[< Previous Question](#)[Next Question >](#)

Q35

The proteins at the junction between sarcomeres form the:

A

H zone

B

M line

C

Z line

D

A band

[< Previous Question](#)[Next Question >](#)

Q36

Which lytic enzyme released by the sperm?

A

trypsin

B

helicase

C

testosterone

D

Hyaluronidase

< Previous Question

Next Question >

Q37

What affect do enzymes have on the activation energy of a reaction?

A

increases

B

decreases

C

no affect

D

Increases or decreases depending upon individual enzyme

[< Previous Question](#)[Next Question >](#)

Q38

What is generated during noncyclic flow of photosynthesis?

A

ATP

B

NADPH

C

Oxygen

D

all of these

< Previous Question

Next Question >

Q39

Which of the following step occurs immediately after binding of Ca^{2+} with troponin molecule during muscle contraction?

- A Binding sites of actin get attached to the myosin head
- B Troponin uncovers the actin binding sites.
- C Ca^{2+} goes back inside sarcoplasmic reticulum.
- D Tropomyosin gets removed from the binding sites of actin filaments.

Q40

Which of the following statements are true about the viruses?

A

Free living

B

Obligate parasites

C

both a and b

D

none of the above

[< Previous Question](#)[Next Question >](#)

Q41

From beginning of the 3rd month of pregnancy the human embryo is referred to as the?

A

zygote

B

foetus

C

embryo

D

all of these

[< Previous Question](#)[Next Question >](#)

Q42

To overcome infertility, which technique is used:

A

In vitro fertilization

B

In vivo fertilization

C

Both A and B

D

None of these

[< Previous Question](#)[Next Question >](#)

Q43

Which of the following is male determining gene in humans?

A

tfm

B

SRY

C

both a and b

D

none of these

[< Previous Question](#)[Next Question >](#)

Q44

Which class has the largest number of animals?

A

fishes

B

reptiles

C

insects

D

mammals

< Previous Question

Next Question >

Q45

Which of the following blood group is always heterozygous?

A

A

B

B

C

AB

D

O

< Previous Question

Next Question >

Q46

Such inheritance in which traits vary quantitatively is?

A

Continuously varying trait

B

Incomplete dominance

C

Test cross

D

Polygenic inheritance

[< Previous Question](#)[Next Question >](#)

Q47

PS I has chlorophyll a molecule which absorbs maximum light of ____ nm?

A

600

B

650

C

680

D

700

< Previous Question

Next Question >

Q48

Glottis is lined with:

A

plasma membrane

B

Mucous membrane

C

meninges

D

epithelial membrane

< Previous Question

Next Question >

Q49

Which statement about the nucleolus is not true?

A

no membranous boundary

B

hereditary center

C

site of synthesis for rRNA

D

composed of two regions

[< Previous Question](#)[Next Question >](#)

Q50

Out of 31 pairs of spinal nerves, how many pairs of lumbar nerves are there?

A

5

B

10

C

12

D

15

< Previous Question

Next Question >

Q50

Out of 31 pairs of spinal nerves, how many pairs of lumbar nerves are there?

A

5

B

10

C

12

D

15

< Previous Question

Next Question >

Q51

Photosystem 1 absorbs maximum wavelength of light?

A

750

B

600

C

700

D

770

< Previous Question

Next Question >

Q52

A surfactant plays its role by:

A

decreasing surface tension

B

increasing surface tension

C

no effect on surface tension

D

none of these

< Previous Question

Next Question >

Q53

Which statement is incorrect?

A

Homologous organs are functionally different but structurally alike

B

Examples of homologous structures are arms of man, forelimb of cat, flipper of whale

C

Examples of analogous structures are wings of bats, birds and insects

D

Analogous organs are functionally different but structurally alike

< Previous Question

Next Question >

Q54

The space between two Z lines constitutes the:

A

sarcolemma

B

sarcoplasm

C

sarcophagus

D

sarcomere

[< Previous Question](#)[Next Question >](#)

Q55

A Dutch scientist firstly observed very small creatures in

A

Vinegar

B

Saliva

C

Rain water

D

All of Above

[< Previous Question](#)[Next Question >](#)

Q56

The numbers of capsomeres found in adenovirus capsid is?

A

162

B

200

C

252

D

155

< Previous Question

Next Question >

Q57

An enzyme is said to be denatured in the presence of?

A

no cofactor

B

low temperature

C

extremely high temperature

D

none of these

[< Previous Question](#)[Next Question >](#)

Q58

In DNA molecules, Adenine pairs with which of the following nucleic acid bases?

A

Guanine

B

Uracil

C

Cytosine

D

Thymine

[< Previous Question](#)[Next Question >](#)

Q59

To form a female zygote, the sperm cell must contribute which chromosome?

A

X

B

2X

C

Y

D

XY

< Previous Question

Next Question >

Q60

Which the following is not the unique features of synovial joint?

A

Articular capsule

B

articular cartilage

C

synovial fluid

D

fibrocartilage

[< Previous Question](#)[Next Question >](#)

Q61

The two domains to which prokaryotes are classified into are which of the following?

A

Bacteria and Protista

B

Archaea and Eukarya

C

Eukarya and Monera

D

EuBacteria and Archaea

[< Previous Question](#)[Next Question >](#)

Q62

Where does germ cells are produced?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

< Previous Question

Next Question >

Q63

Which of the following statement about the head of a chlorophyll molecule is incorrect?

A

It is a porphyrin ring or tetrapyrrole ring structure

B

It is flat, square and light absorbing

C

Composed of carbon and nitrogen atoms with Magnesium as central metal ion, which is coordinated with nitrogen.

D

It is hydrophobic

Q64

All of the following statements are true regarding the attachment or adsorption of the virion to the host cell EXCEPT that:

A

for naked virions, the surface capsid proteins are responsible for binding to a specific cell receptor.

B

for enveloped viruses, the spikes are responsible for binding to a specific cell receptor.

C

cell lacking a receptor for a specific virus is not infected by that virus.

D

All of the above

Q65

Which term is used to refer to an inactive enzyme precursor?

A

apoenzyme

B

null enzyme

C

zymogen

D

inhibitor

[< Previous Question](#)[Next Question >](#)

Q66

The left side of the body is controlled by:

A

left cerebral hemisphere

B

right cerebral hemisphere

C

Hippocampus

D

Corpus callosum

[< Previous Question](#)[Next Question >](#)

Q67

The optimum pH for enzyme arginase is?

A

9

B

9.3

C

9.7

D

10

< Previous Question

Next Question >

Q68

The lipoproteins are rich in cholesterol _____

A

Chylomicrons

B

VLDL

C

LDL

D

HDL

< Previous Question

Next Question >

Q69

The flap like structure found in larynx is called:

A

glottis

B

epiglottis

C

larynx

D

vocal cords

[< Previous Question](#)[Next Question >](#)

Q70

The synthesis of ATP in the presence of oxygen is called?

A

respiration

B

calvin cycle

C

oxidative phosphorylation

D

chemiosmosis

[< Previous Question](#)[Next Question >](#)

Q71

How is the body plan of a lobster similar to that of a whale?

A

Closed circulatory system.

B

Mouth develops from the blastopore.

C

A tubular digestive system with a mouth and an anus.

D

The gut is not lined by coelomic epithelium.

[< Previous Question](#)[Next Question >](#)

Q72

Which of the following is paired correctly?

A

Pisces- jellyfish

B

Echinodermata- cuttlefish

C

Mollusca- starfish

D

Arthropoda- silver fish

< Previous Question

Next Question >

Q73

The movement of minerals or water via plasmodesmata is known as:

A

apoplast

B

symplast

C

vascular

D

All of these

[< Previous Question](#)[Next Question >](#)

Q74

Kinetic energy of the molecule may be all of the following except?

A

Vibrational

B

Translational

C

Rotational

D

Static

[< Previous Question](#)[Next Question >](#)

Q75 Aldehydes can be oxidized by_____?

A $\text{K}_2\text{Cr}_2\text{O}_7$

B HNO_3

C Tollen's reagent

D All of these

< Previous Question

Next Question >

Q76

Allotropes are of same

A

Compounds

B

Molecules

C

Ions

D

Element

< Previous Question

Next Question >

Q77

The vapor pressure of water at 8°C is

A

4.579 torr

B

23 torr

C

8.1 torr

D

17.54 torr

< Previous Question

Next Question >

Q78

The second ionization potential of alkali metals are very high due to

A

Being s-block elements

B

Inert gas configurations

C

ns¹ electronic configuration

D

Being metals

[< Previous Question](#)[Next Question >](#)

Q79

The break down of molecular ions from natural products give important information about

A size

B position

C shape

D structure

< Previous Question

Next Question >

Q80

The group which leaves from the substrate in a nucleophilic substitution reaction is called as ___?

A

Leaving group

B

Electrophile

C

Substrate

D

Weak nucleophile

[< Previous Question](#)[Next Question >](#)

Q81

How many pi bonds are present in ethene?

A 3

B 2

C 1

D 0

< Previous Question

Next Question >

Q82

Following is termed as hydroxyl derivative of benzene

A

Benzyl chloride

B

Benzyl alcohol

C

Phenols

D

Carboxylic acids

[< Previous Question](#)[Next Question >](#)

Q83

Which of the following element can form interstitial alloy with transition elements?

A Zn

B Mg

C H

D All of these

< Previous Question

Next Question >

Q84

Salt Bridge is used for the purpose of

A

Producing Electrons

B

Circuit Completion

C

Increasing speed of electrons

D

All of these

< Previous Question

Next Question >

Q85

The temperature at which enzyme activity is maximum is called as _____?

A

Maximum temperature

B

Absolute temperature

C

Critical temperature

D

Optimum temperature

[< Previous Question](#)[Next Question >](#)

Q86

The rate of S_N1 reaction become doubled if _____?

A

Concentration of Nucleophile doubled

B

Concentration of Substrate doubled

C

Concentration of Substrate Tripled

D

Concentration of substrate remain same

[< Previous Question](#)[Next Question >](#)

Q87

Carboxylic acids form dimer due to_____?

A

Small sizes

B

Polarity of C-O bond

C

H-bonding

D

Dipole-Dipole interactions

< Previous Question

Next Question >

Q88

On which factors the vapour pressure of a substance does not depend?

A Physical state of matter

B Intermolecular forces

C Surface area

D Temperature

< Previous Question

Next Question >

Q89

Pressure cooker works on which principle?

A

Decrease in external pressure increase the boiling point

B

Increase in external pressure decrease the boiling point

C

Increase in external pressure increase the boiling point

D

None of these

< Previous Question

Next Question >

Q90

State function is the _____ property of system.

A

Microscopic

B

Dependent

C

Macroscopic

D

Constant

< Previous Question

Next Question >

Q91

The reactant which consumes completely in a reaction is known as ____ reactant

A

fractional

B

initial

C

limiting

D

minor

[< Previous Question](#)[Next Question >](#)

Q92

Which is not a heterocyclic compound?

A

Furan

B

Pyrrole

C

Pyridine

D

Ethane

< Previous Question

Next Question >

Q93

Production of Ammonia by Haber process is a

A

Endothermic Reaction

B

Exothermic Reaction

C

Irreversible Reaction

D

Redox Reaction

< Previous Question

Next Question >

Q94

Kekule's formula shows benzene _____?

A

Highly saturated

B

Highly unsaturated

C

Give Substitution reaction

D

Give elimination reaction

< Previous Question

Next Question >

Q95

What is the common name of 2-methyl-2-chloropropane ?

A

secondary propyl chloride

B

Tertiary butyl chloride

C

Secondary butyl chloride

D

Isobutyl Chloride

< Previous Question

Next Question >

Q96

In the addition of sodium bisulfite to carbonyl system, which of the following is nucleophile?

A

Sulphide ion

B

Sulfite ion

C

Hydride ion

D

Sodium ion

[< Previous Question](#)[Next Question >](#)

Q97

Linde's Method is based on

A

joule-Thomson effect

B

Hess effect

C

graham's effect

D

none of these

< Previous Question

Next Question >

Q99

Formamint is made up of _____?

A

Formaldehyde + maltose

B

Formaldehyde + lactose

C

Formaldehyde + Galactose

D

Formaldehyde + fructose

< Previous Question

Next Question >

Q100

Instantaneous dipole-Induced dipole forces are also named as?

A

Debye forces

B

Dipole-dipole forces

C

London Dispersion forces

D

H-bonding

[< Previous Question](#)[Next Question >](#)

Q101

SN₁ reactions have which of the following specie formed and consumed in the reaction ?

A

Transition state

B

Intermediate

C

Carbanion

D

Carbene

[< Previous Question](#)[Next Question >](#)

Q102

The minimum amount of energy required to remove an electron from its gaseous atom to form an ion is known as

A

electron affinity

B

ionization energy

C

electronegativity

D

potential energy

< Previous Question

Next Question >

Q103

Number of Valence Electrons in Cl^- Ion are

A 18

B 10

C 17

D 8

< Previous Question

Next Question >

Q104

Atomicity is determined by number of _____ present in a molecule

A

dots

B

atoms

C

sub particles

D

electrons

[< Previous Question](#)[Next Question >](#)

Q105 The ionization energy of group __shows abnormal trend

A 3A & 4A

B 5A & 6A

C 6A & 4A

D 3A & 6A

< Previous Question

Next Question >

Q106

Protein is a polymer of_____?

A

Nitrogen atoms

B

Amino acids

C

Glucose

D

Nitrogenous base

< Previous Question

Next Question >

Q107

When the central atom of coordination compound is sp^3d^2 hybridization the expected geometry will be

A

Tetrahedral

B

Square planar

C

Trigonal bipyramidal

D

Octahedral

[< Previous Question](#)[Next Question >](#)

Q108

which of the following solids is isotropic

A

ionic solids

B

molecular solids

C

amorphous solids

D

metallic solids

< Previous Question

Next Question >

Q109

Which of the following is formed when phenol reacts with acetyl chloride?

A

Alcohol

B

Carboxylic acids

C

Ester

D

Amines

[< Previous Question](#)[Next Question >](#)

Q110

Which of the following does not react with bases?

A

Carboxylic acids

B

Phenol

C

Ethanol

D

HCl

< Previous Question

Next Question >

Q111

The rate of reaction

A

Increases as the reaction proceeds

B

Decreases as the reaction proceeds

C

Remains unchanged

D

None of these

< Previous Question

Next Question >

Q113

In Electrochemical Cell Positive Ions are migrated towards

A

Anode

B

Cathode

C

Toward the bottom of the cell

D

Towards the walls of the cell

[< Previous Question](#)[Next Question >](#)

Q114

 H_3O^+ ions act as

A

Base

B

Catalyst

C

Buffer

D

Acid

< Previous Question

Next Question >

Q115

The Addition of Hydrogen cyanide in Formaldehydes give which product?

A

2- Hydroxypropanoic acid

B

2- methylpropanenitrile

C

Hydroxyacetonitrile

D

2- Hydroxypropanenitrile

[< Previous Question](#)[Next Question >](#)

Q116

What is the correct equation to find Heat of neutralization using glass calorimeter ?

A

$$q = m s \Delta T$$

B

$$E = q m \Delta T$$

C

$$E = m s \Delta T$$

D

$$q = m c \Delta T$$

< Previous Question

Next Question >

Q117

f-block elements are called ?

A

inner transition

B

outer transition

C

both

D

none

< Previous Question

Next Question >

Q118

Which of the following reactions have first step similar with each other?

A

 E_1, S_2

B

 E_2, S_1

C

 E_2, S_2

D

 E_1, S_1

< Previous Question

Next Question >

Q119

Pentene has how many isomers?

A 2

B 1

C 5

D 3

< Previous Question

Next Question >

Q120

Which one of the following H-bond is strong?

A

O-H

B

N-H

C

F-H

D

Cl-H

< Previous Question

Next Question >

Q121

Spectrum is the visual display or _____ of component of white light when it is passed through prism

A

rarefaction

B

radiation

C

collection

D

dispersion

[< Previous Question](#)[Next Question >](#)

Q122

Proteases enzyme are example of:

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

< Previous Question

Next Question >

Q123

SI Unit of voltage is?

A

Coulomb

B

Volts

C

Ampere

D

newton's Meter

< Previous Question

Next Question >

Q124

Current carrying loop behaves like a

A

monopole

B

dipole

C

quadrupole

D

octopole

< Previous Question

Next Question >

Q125

Which of the following is the same for isotopes?

A

neutrons

B

protons

C

electrons

D

all of them

< Previous Question

Next Question >

Q126

The particle that possesses half integral spin has

A

pion

B

proton

C

k-meson

D

photon

< Previous Question

Next Question >

Q127

When temperature of the system does not change, it is called:...

A

isothermal

B

adiabatic

C

isovolumetric

D

isobaric

[< Previous Question](#)[Next Question >](#)

Q128

If peak Voltage across a full wave rectifier is 20V then V_{rms} is

A

7.07

B

14.14 v

C

16.8V

D

12V

< Previous Question

Next Question >

Q129

The value of acceleration due to gravity on moon is_____ of earth

A

1/4 th

B

1/10th

C

2/3rd

D

1/6th

[< Previous Question](#)[Next Question >](#)

Q130

Laser light is

A

multi directional

B

bi-directional

C

uni-directional

D

none of these

< Previous Question

Next Question >

Q131

Which of the following is not a conservative force

A

friction

B

electric

C

magnetic

D

gravitational

[< Previous Question](#)[Next Question >](#)

Q131

Which of the following is not a conservative force

A

friction

B

electric

C

magnetic

D

gravitational

[< Previous Question](#)[Next Question >](#)

Q132

Force acting on a negative charge is always:....

A

in the direction opposite to electric field

B

in the direction of electric field

C

in the direction perpendicular to electric field

D

in the direction perpendicular to the velocity of charge

< Previous Question

Next Question >

Q134

Bright Lines in pattern shows

A

absorption

B

emission

C

release

D

free particle

< Previous Question

Next Question >

Q135

Electric field lines provide information about

A

Field strength

B

direction

C

Nature of charge

D

All of these

< Previous Question

Next Question >

Q136

The concept of work function was given by

A

Bohr

B

Einstein

C

Rutherford

D

none of these

[< Previous Question](#)[Next Question >](#)

Q137

What will be the decay constant of 1 Curie sample of radioactive substance of mass 214, its half life is 26.8 min?

A

 4.31×10^{-4}

B

 4.31×10^{-5}

C

 4.31×10^5

D

0.431

< Previous Question

Next Question >

Q138

For currents changing with time will produce___ field

A

electrostatic

B

magnetostatic

C

electromagnetic

D

none of these

[< Previous Question](#)[Next Question >](#)

Q139

In full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of frequency

A 25 Hz

B 50Hz

C 100Hz

D zero

[< Previous Question](#)[Next Question >](#)

Q140

Instantaneous velocity is defined at

A

particular displacement

B

instant acceleration

C

instant time

D

average time

< Previous Question

Next Question >

Q141

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $20/\sqrt{2}$

C $20/\pi$

D 20π

[< Previous Question](#)[Next Question >](#)

Q142

The attraction capacity of electromagnet will increase if the

A

Core length increases

B

Core area increases

C

Flux density decreases

D

Flux density increases

[< Previous Question](#)[Next Question >](#)

Q143

Two spherical nuclei have mass number 216 and 64 with radius R_1 and R_2 respectively. The ratio of R_2/R_1 is

A

1.5

B

2

C

2.5

D

3

< Previous Question

Next Question >

Q144

What is the magnitude of the magnetic field $B = (0.3\mathbf{i} + 0.4\mathbf{j})$ T?

A 5 T

B 2.5 T

C 0.5 T

D 2 T

< Previous Question

Next Question >

Q145

If crops are grown under greenhouse radiation the crops will

A

grow faster

B

grow slowly

C

burn immediately

D

none of these will happen

[< Previous Question](#)[Next Question >](#)

Q146

Half wave rectifier passes only

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

< Previous Question

Next Question >

Q147

Which of the following statements is correct? The electric field at a point is

A

continuous if there is a charge at that point

B

Always continuous

C

discontinuous only if there is a negative charge at that point

D

discontinuous if there is a charge at that point

[< Previous Question](#)[Next Question >](#)

Q148

A metal rod of length 4 m , velocity 5m/s and magnetic field 0.5 T induced emf is

A

10 V

B

20V

C

30V

D

4V

< Previous Question

Next Question >

Q149

When electron series terminates on 4th orbit ____ series is obtained

A

Balmer

B

Pfund

C

Paschen

D

none of these

[< Previous Question](#)[Next Question >](#)

Q150

A body moving along the circumference of a circle completes two revolutions. If the radius of the circular path is R , the total angular displacement covered is?

A πr

B $2\pi r$

C zero

D 4π

[< Previous Question](#)[Next Question >](#)

Q151

If the supply frequency of a transformer increases, the secondary output voltage of the transformer

A

increases

B

decreases

C

remains unchanged

D

any of above

[< Previous Question](#)[Next Question >](#)

Q152

As a result of interference, energy

A

is transmitted and reflected

B

is lost

C

remains unchanged as a whole but is redistributed

D

is gained

[< Previous Question](#)[Next Question >](#)

Q153

Acceleration of rolling object is zero at _____ point of hill

A

highest

B

lowest

C

middle

D

none of these

< Previous Question

Next Question >

Q154

Consider a drop of water of mass 1 gm falling from a height of 1 km. It hits the ground with a speed of 50 m/s, take $g = 10 \text{ m/s}^2$. the work done by resistive force of air is

A -8.25 J

B -8.75 J

C 8.75 J

D 8.5 J

< Previous Question

Next Question >

Q155

The convection process transfer heat faster than radiation

A

it depends on condition

B

not always

C

TRUE

D

FALSE

[< Previous Question](#)[Next Question >](#)

Q156

The source of gamma radiation is

A

outside nucleus

B

inside nucleus

C

electron transition

D

none of these

< Previous Question

Next Question >

Q157

Copper wire is used as connecting wire because :

A copper has high electrical resistivity

B copper has low electrical resistivity

C copper has low electrical conductivity

D copper has high value of elasticity

[< Previous Question](#)[Next Question >](#)

Q158

Numbers of electrons emitted in photoelectric effect depends upon

A wavelength of incident light

B frequency of incident light

C energy of incident light

D intensity of incident light

< Previous Question

Next Question >

Q159

The frequency of a wave is 60 Hz. How long does it take to pass 20 complete waves from a point?

A

1200 sec

B

12 sec

C

3 sec

D

1/3 sec

< Previous Question

Next Question >

Q160

Which one is the correct statement about selenium?

A

selenium is a good conductor

B

selenium is a good insulator

C

selenium is an insulator in the dark and becomes conductor when exposed to light

D

selenium is an conductor in the dark and becomes insulator when exposed to light

[< Previous Question](#)[Next Question >](#)

Q161

Value of current in a short circuit is _____

A

Infinite

B

zero

C

minimum

D

maximum

< Previous Question

Next Question >

Q162

A variable force $F = 2x$ is applied what will be the work done in moving the particle from $X = 10$ to 0

A 100 J

B 50 J

C -50 J

D -100 J

[< Previous Question](#)[Next Question >](#)

Q163

If ^{238}U decay two gamma particles the new atomic number will be

A

^{238}U

B

^{234}U

C

^{237}U

D

none of these

[< Previous Question](#)[Next Question >](#)

Q164

A steel wire hangs vertically from a fixed point, supporting a weight of 80 N at its lower end. The diameter of the wire is 0.50 mm and its length from the fixed point to the weight is 1.5 m. If density of steel wire = $7.8 \times 10^3 \text{ kg/m}^3$, then what is the fundamental frequency emitted from the wire.

A

76 Hz

B

176 Hz

C

50 Hz

D

150 Hz

< Previous Question

Next Question >

Q165

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is L , then what is the maximum possible wavelength of the wave.

A $2L$ B $1/2 L$ C L D $3L$

< Previous Question

Next Question >

Q166

Consider a car is travelling for one hour. Which of the following cases has the greatest average velocity in east-direction?

A

car travels 20 km due east

B

car travels 60 km due east, then turns around and travels 40 km due west

C

car travels 70 km due east

D

car travels 30 km due west, then turns around and travels 30 km due east

[< Previous Question](#)[Next Question >](#)

Q167

A reversible carnot engine converts $\frac{1}{6}$ th of heat into input work. When the temperature of sink is reduced by 62 degree C then efficiency is doubled then temperature of source and sink is

A 80 C , 37 C

B 99 C , 30C

C 99C , 25C

D 99C , 37C

[< Previous Question](#)[Next Question >](#)

Q168

Where does the energy lost by fast moving electron goes :

A

Appears as photon

B

Appears as electron - positron pair

C

Appears as its K.E.

D

It vanishes

[< Previous Question](#)[Next Question >](#)

Q169

The image received of absorbed x rays is

A

inverted

B

real

C

any of a or b

D

virtual

< Previous Question

Next Question >

Q170

The centripetal force direction is positive when object rotates

A

anti-clockwise

B

clockwise

C

upward

D

none of these

[< Previous Question](#)[Next Question >](#)

Q171

Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is

A min

B constant

C zero

D max

[< Previous Question](#)[Next Question >](#)

Q172

Spring is _____. It will be warmer soon.

A

on the way

B

to be coming

C

eventually

D

prepared now

[< Previous Question](#)[Next Question >](#)

Q173

I am _____ tea now.

A

taking

B

takes

C

took

D

take

< Previous Question

Next Question >

Q174

Aslam and his friends were making too much noise. Their father got really _____ at them.

A

afraid

B

angry

C

kind

D

strong

< Previous Question

Next Question >

Q175

Fetch ____ chair and sit down.

A

a

B

an

C

the

D

no article

< Previous Question

Next Question >

Q176

Aquatic arthropods respire through which of the following?

A

gills

B

book lungs

C

spiracles

D

both a and b

< Previous Question

Next Question >

Q177

Choose the present indefinite tense form of the sentence. "He had been sleeping."

A

He has been sleeping.

B

He had slept.

C

He has slept.

D

He sleeps.

[< Previous Question](#)[Next Question >](#)

Q178

Choose the correct sentence.

A

My friend Sally and i are reading "The Phantom Tollbooth"

B

My friend sally and I are reading "The Phantom Tollbooth" .

C

My friend Sally and I are reading "The Phantom Tollbooth".

D

My friend Sally and I are reading the phantom tollbooth.

< Previous Question

Next Question >

Q179

Our neighbors have _____ cat and _____ dog.

A

a... an

B

a...a

C

a....the

D

an...an

[< Previous Question](#)[Next Question >](#)

Q180

I would love (A)/ to be able to swim (B)/ if I am not afraid (C)/ of water (D)

A

I would love

B

to be able to swim

C

if I am not afraid

D

of water.

[< Previous Question](#)[Next Question >](#)

Q181

The police _____ (leave) no stone unturned to trace the culprits.

A

left

B

leave

C

leaves

D

leaving

< Previous Question

Next Question >

Q182

That night every one of the boat's crew _____ down with fever.

A is

B are

C was

D were

[< Previous Question](#)[Next Question >](#)

Q183

would not

A

would'nt

B

wouldn't

C

woul'dnt

D

wouldnt'

< Previous Question

Next Question >

Q184

Ninety rupees _____ too much for this bag.

A

is

B

are

C

be

D

were

< Previous Question

Next Question >

Q185

Find the error?

A

They talked through the entire movie.

B

The plants in this garden does not require much water.

C

She always brings turkey sandwiches for lunch.

D

No mistakes

< Previous Question

Next Question >

Q186

Choose the correct spelling of the word

A

possession

B

possession

C

posession

D

posession

< Previous Question

Next Question >

Q187

She _____ (work) in the factory for fifteen years by next year.

A

will work

B

will be working

C

will have been working

D

had worked

[< Previous Question](#)[Next Question >](#)

Q188

Over-speeding is a traffic offense which leads to _____ accidents.

A

troublesome

B

final

C

great

D

gruesome

[< Previous Question](#)[Next Question >](#)

Q189

Choose the correct sentence.

A

Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B

Mrs Sajjad who was sitting behind the desk gave me a big smile.

C

Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D

Mrs Sajjad, who was sitting behind the desk gave me a big smile?

< Previous Question

Next Question >

Q190

Statement: Majority of the students in the college expressed their opinion against the college authority's decision to break away from the university and become autonomous. The university authorities have expressed their inability to provide grants to its constituent colleges.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

[< Previous Question](#)[Next Question >](#)

Q191

The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is

A True

B FALSE

C maybe

D unresolved

[< Previous Question](#)[Next Question >](#)

Q192

Look at this series 14, 28, 20, 40, 32, 64. What number should come next?

A

52

B

56

C

96

D

128

< Previous Question

Next Question >

Q193

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

< Previous Question

Next Question >

Q194

Which of the following is classified as a main rock?

A

Metamorphic

B

Sedimentary

C

Igneous

D

Both A and B

[< Previous Question](#)[Next Question >](#)

Q195

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

< Previous Question

Next Question >

Q196

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

< Previous Question

Next Question >

Q197

Statements (I) Many people prefer to shop at the big retail chains than the local grocery stores. (II) Retail chains offer a discount of more than 25% as compared to local grocery shops.

A I is cause and II is effect

B II is cause and I is effect

C Both are independent causes

D both are effects of independent causes

[< Previous Question](#)[Next Question >](#)

Q198

Complete the series A25, B625, C15625, _____?

A

D390625

B

D364748

C

D390524

D

D390525

< Previous Question

Next Question >

Q199

A reflex action involving two or more interneurons between sensory and motor neuron is called:

A

Monosynaptic reflex

B

Polysynaptic reflex

C

Hemi Synaptic reflex

D

None of these

[< Previous Question](#)[Next Question >](#)

Q200

In stretched string the frequency of vibration is given by $f = \frac{1}{2L} \sqrt{F/m}$. In this equation m has dimension

A ML^{-2}

B ML^{-1}

C M

D ML

[< Previous Question](#)[Next Question >](#)

Q201

Which of the following is evidence of a common ancestor?

A

Morphological similarities

B

Fossil record

C

Vestigial characteristics

D

all of these

[< Previous Question](#)[Next Question >](#)

Q202

What types of viruses contain the enzyme lysozyme to aid in their infection?

A

bacteriophage

B

animal viruses

C

plant viruses

D

fungus viruses

[< Previous Question](#)[Next Question >](#)

Q203

Human body contains _____ kind of proteins ?

A

60000

B

Almost 10000

C

5000

D

200

< Previous Question

Next Question >

Q204

the value of quantity G in the law of gravitation

A

depend on mass of Earth only

B

depends on radius of Earth only

C

depends on both

D

it independent of mass and radius of Earth

< Previous Question

Next Question >

Q205

I. The department of finance has levied more taxes. II. The economic shortfall of the country has slashed.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

[< Previous Question](#)[Next Question >](#)

Q206

For a half-wave rectifier having diode voltage V_D and supply input of V , the diode conducts for $\pi - 2\theta$, where θ is given by

A $\tan^{-1}(V_D/V)$

B $\sin^{-1}(V_D/V)$

C $\cos^{-1}(V_D/V)$

D $\cot^{-1}(V_D/V)$

[< Previous Question](#)[Next Question >](#)

Q207

The half-life of radium is about 1600 years. Of 100 g of radium existing now, 25 g will remain unchanged after

A 2400 years

B 3200 years

C 6400 years

D 4800 years

[< Previous Question](#)[Next Question >](#)

Q208

They would not (A)/ have able to (B)/ plan the details of the trip (C)/ without your help. (D)

A

They would not

B

have able to

C

plan the details of the trip

D

without your help.

[< Previous Question](#)[Next Question >](#)

Q209

I have already got a _____ at a hotel in Murree. We shall have no problems.

A

prescription

B

property

C

reserve

D

reservation

[< Previous Question](#)[Next Question >](#)

Q210

There is _____ institution for _____ blind in this city.

A

a... an

B

a... the

C

an.. a

D

an.. the

< Previous Question

Next Question >